

REPLACEMENT SHEET *Amendment under Article 19*

EXPLANATION UNDER ARTICLE 19(1)

In claim 11 of the claims, there is described a treatment device which includes a light irradiation mechanism which irradiates
5 light within a wavelength region from 550 to 580 nm to a skin surface of an object to be treated.

In a cited document, the mechanism which irradiates light within the wavelength region from 550 to 580 to the skin surface of the object to be treated is not described.

10 In claim 12 of the claims, there is described a treatment device wherein the light irradiation mechanism includes a light source in a base end portion side of the contact which is used with a tip portion being contacted with the skin surface, and wherein a non-penetrating light guide hole which has an opening only in the
15 base end portion side of the contact and which is to guide the light emitted from the light source from the base end portion side to a tip portion side of the contact is formed in a central part of the contact.

In the cited document, the contact in which the non-penetrating
20 light guide hole to guide the light emitted from the light source from the base end portion side to the tip portion side is formed is not described.

In claim 13 of the claims, there is described a treatment device which includes a contact drive mechanism having: first and
25 second arms respective one end portions of which are connected to the first and second contact groups and respective the other end portions of which are supported pivotably; and a transfer mechanism for motive power including at least a cam which gives central parts

REPLACEMENT SHEET *Amendment under Article 19*

of the first and second arms operating power to reciprocate the first and second contact groups, respectively.

In the cited document, the treatment device which includes the contact drive mechanism having the first and second arms contacted to the first and second contact groups and the transfer mechanism for motive power including the cam which gives the operating power to reciprocate the first and second contact groups via the first and second arms is not described.

In claim 15 of the claims, there is described a treatment device wherein the light irradiation mechanism includes a light source in a base end portion side of the brush which is used with a tip portion being contacted with the skin surface, and wherein a non-penetrating light guide hole which has an opening only in the base end portion side of the brush and which is to guide the light emitted from the light source from the base end portion side to a tip portion side of the brush is formed in a central part of the brush.

In the cited document, the brush in which the non-penetrating light guide hole to guide the light emitted from the light source from the base portion side to the tip portion side is not described.

In claim 16 of the claims, there is described a treatment device which includes a brush drive mechanism having: first and second arms respective one end portions of which are connected to the first and second brush groups and respective the other end portions of which are supported pivotably; and a transfer mechanism for motive power including at least a cam which gives central parts of the first and second arms operating power to reciprocate the first and second brush groups, respectively.

REPLACEMENT SHEET *Amendment under Article 19*

In the cited document, the treatment device which includes the brush drive mechanism having the first and second arms connected to the first and second brush groups and the transfer mechanism for motive power including the cam which gives the operating power to reciprocate the first and second brush groups via the first and second arms is not described.

A main purpose of the amendments of claim 3 and claim 9 is to disclose disposition relationship of the first and second contact groups (and the first and second brush groups) more specifically.

REPLACEMENT SHEET

Amendment under Article 34

10/571534

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the housing and used with a tip portion being contacted with a skin surface of an object to be treated; a waterproofing sealing member which seals an accommodating portion for the electric component in the housing against the outside; and a contact drive mechanism which reciprocates the contact the tip portion of which is contacted with the skin surface of the object to be treated in a direction along the skin surface.

[0010] The treatment device of the present invention also includes first and second contact groups respectively by providing a plurality of the contacts respectively, and the contact drive mechanism reciprocates the first and second contact groups respectively in a manner that approach or separation of a tip part of the first contact group and a tip part of the second contact group is repeated.

[0011] Further, in the treatment device of the present invention, ~~[as for the first and second contact groups,]~~ the plural contacts of the first contact group and the plural contacts of the second contact group are respectively arranged [zigzag] in the state where each of the contacts is shifted in a direction orthogonal to a moving direction of these contacts to evade intersection of movement trajectories of the contacts.

[0012] In the treatment device of the present invention, the housing is constituted with a first casing having the accommodating portion for the electric component and a second casing supporting the contact, and the treatment device of the present invention further includes an attachment/detachment mechanism to join the second casing in relation to the first casing attachably/detachably.

[0013] Further, in the treatment device of the present invention, the contact is a brush.

REPLACEMENT SHEET *Amendment under Article 34*

[0014] The treatment device of the present invention further includes a light irradiation mechanism which irradiates light of a certain wavelength region to the skin surface of the object to be treated.

5 [0015] Further, in the treatment device of the present invention, the contact is formed of a translucent material.

[0016] The treatment device of the present invention includes: a light irradiation mechanism which irradiates light of a certain wavelength region to a skin surface of an object to be treated; a
10 housing in which the light irradiation mechanism and an electric component including at least a power supply are incorporated; a waterproofing sealing member which seals an accommodating portion for the electric component in the housing against the outside; first and second brush groups made by making a plurality of brushes projected
15 on the housing into units respectively, the brushes having translucency transmitting the light emitted by the light irradiation mechanism and being used with tip portions contacted with the skin surface of the object to be treated; and a brush drive mechanism which reciprocates the first and second brush groups respectively
20 in a direction along the skin surface in a manner that approach or separation of a tip part of the first brush group and a tip part of the second brush group tip portions of which are contacted with the skin surface of the object to be treated is repeated.

[0017] Further, in the treatment device of the present invention,
25 ~~[as for the first and second brush groups,]~~ the plural brushes of the first brush group and the plural brushes of the second brush group are respectively arranged [zigzag] in the state where each of the contacts is shifted in a direction orthogonal to a moving

REPLACEMENT SHEET *Amendment under Article 34*

direction of these brushes to evade intersection of movement trajectories of the brushes.

[0018] In the treatment device of the present invention, the housing in which the light irradiation mechanism and an electric component including at least a power source are incorporated is constituted with a first casing having the accommodating portion for the electric component and a second casing supporting the respective brushes, and the treatment device of the present invention further includes an attachment/detachment mechanism to join the second casing in relation to the first casing attachably/detachably.

[0018/1] Further, in the treatment device of the present invention, the light irradiation mechanism irradiates light within a wavelength region from 550 to 580 nm.

[0018/2] In the treatment device of the present invention, the light irradiation mechanism includes a light source in a base end portion side of the contact, and in a central part of the contact, a non-penetrating light guide hole which has an opening only in the base end portion side of the contact and which is to guide the light emitted from the light source from the base end portion side to a tip portion side of the contact is formed.

[0018/3] Further, in the treatment device of the present invention, the contact drive mechanism includes: first and second arms respective one end portions of which are connected to the first and second contact groups and respective the other end portions of which are supported pivotably; and a transfer mechanism for motive power including at least a cam which gives central parts of the first and second arms operating power to reciprocate the first and second contact groups, respectively.

REPLACEMENT SHEET *Amendment under Article 34*

[0018/4] In the treatment device of the present invention, the light irradiation mechanism includes a light source in a base end portion side of the brush, and in a central part of the brush, a non-penetrating light guide hole which has an opening only in the base end portion side of the brush and which is to guide the light emitted from the light source from the base end portion side to a tip portion side of the brush is formed.

[0018/5] Further, in the treatment device of the present invention, the brush drive mechanism includes: first and second arms respective one end portions of which are connected to the first and second contact groups and respective the other end portions of which are supported pivotably; and a transfer mechanism for motive power including at least a cam which gives central parts of the first and second arms operating power to reciprocate the first and second brush groups, respectively.

[0018/6] The treatment device of the present invention includes: a brush used with a tip portion being contacted with a scalp; a housing which supports the brush and in which an electric component including a power supply is incorporated; a waterproofing sealing member which seals inside of the housing against the outside; and a brush drive mechanism which removes dirt from the scalp and stimulates the scalp by driving the brush a tip portion of which is contacted with the scalp.

25 Brief Description of Drawings

[0019] Fig. 1 is a perspective view showing a treatment device of a first embodiment of the present invention.

[0020] Fig. 2 is an exploded perspective view of the treatment

REPLACEMENT SHEET *Amendment under Article 34*

device shown in Fig. 1.

[0021] Fig. 3 is a perspective view of the treatment device shown in Fig. 1 seen from a base end portion side.

[0022] Fig. 4 is a cross-sectional view showing a brush drive mechanism (separation state of brushes) which the treatment device of Fig. 1 includes.

[0023] Fig. 5 is a cross-sectional view showing an approached state of the brushes of the brush drive mechanism of Fig. 4.

[0024] Fig. 6 is a plan view of the brush drive mechanism of Fig. 4 seen from a tip side of the brush.

[0025] Fig. 7 is a perspective view of a treatment device of a second embodiment of the present invention seen from a base end portion side.

[0026] Fig. 8 is a cross-sectional view showing a structure of first and second brush units and a periphery thereof which the treatment device of Fig. 7 includes.

[0027] Fig. 9 is a cross-sectional view showing another brush drive

REPLACEMENT SHEET *Amendment under Article 34*

16. The treatment device as set forth in claim 8,
wherein the brush drive mechanism, comprising:

first and second arms respective one end portions of
which are connected to the first and second brush groups and respective
5 the other end portions of which are supported pivotably; and
a transfer mechanism for motive power including at
least a cam which gives central parts of the first and second arms
operating power to reciprocate the first and second brush groups,
respectively.

10 17. (New) A treatment device, comprising:
a brush used with a tip portion contacted with a scalp;
a housing which supports said brush and in which an electric
component including a power supply is incorporated;
a waterproofing sealing member which seals inside of the
15 housing against the outside; and
a brush drive mechanism which removes dirt from the scalp
and stimulates the scalp by driving said brush a tip portion of which
is contacted with the scalp.

REPLACEMENT SHEET

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Amendment under Article 19

10/571534

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AMENDMENT OF CLAIMS

[Accepted by International Bureau on December 28, 2004 (28.12.04):
claim 3 and claim 9 of original claims are amended; new claims 11
5 to 16 are added. Other claims are not changed. (4 pages)]

1. A treatment device, comprising:

a housing in which an electric component including a power
supply is incorporated;

10 a contact projected on said housing and used with a tip portion
being contacted with a skin surface of an object to be treated;

a waterproofing sealing member which seals an accommodating
portion for the electric component in said housing against the
outside; and

15 a contact drive mechanism which reciprocates said contact
the tip portion of which is contacted with the skin surface of the
object to be treated in a direction along the skin surface.

2. The treatment device as set forth in claim 1,

20 wherein first and second contact groups respectively by
providing a plurality of said contacts, and

wherein the contact drive mechanism reciprocates said first
and second contact groups respectively in a manner that approach
or separation of a tip part of said first contact group and a tip
part of the second contact group is repeated.

25 3. (Amended) The treatment device as set forth in claim 2,

wherein~~[, in the first and second contact groups,]~~ the plural
contacts of the first contact group and the plural contacts of the
second contact group are respectively arranged ~~{zigzag}~~ in the state

REPLACEMENT SHEET *Amendment under Article 19*

where each of the contacts is shifted in a direction orthogonal to a moving direction of the contacts to evade intersection of movement trajectories of the contacts.

4. The treatment device as set forth in claim 1,

5 wherein the housing is constituted with a first casing having the accommodating portion for the electric component and a second casing supporting said contact, and

wherein an attachment/detachment mechanism to join the second casing in relation to the first casing attachably/detachably is
10 provided.

5. The treatment device as set forth in claim 1,

wherein the contact is a brush.

6. The treatment device as set forth in claim 1, further comprising:

15 a light irradiation mechanism which irradiates light of a certain wavelength region to the skin surface of the object to be treated.

7. The treatment device as set forth in claim 1, wherein the contact is formed of a translucent material.

20 8. A treatment device, comprising:

a light irradiation mechanism which irradiates light of a certain wavelength region to a skin surface of an object to be treated;

a housing in which the light irradiation mechanism and an electric component including at least a power supply are incorporated;

25 a waterproofing sealing member which seals an accommodating portion for the electric component in said housing against the outside;

first and second brush groups made by making a plurality of

REPLACEMENT SHEET *Amendment under Article 19*

brushes projected on said housing into units, the brushes having translucency transmitting the light emitted by said light irradiation mechanism and being used with tip portions contacted with the skin surface of the object to be treated; and

5 a brush drive mechanism which reciprocates the first and second brush groups respectively in a direction along the skin surface in a manner that approach or separation of a tip part of the first brush group and a tip part of said second brush group tip portions of which are contacted with the skin surface of the object to be treated is
10 repeated.

9. (Amended) The treatment device as set forth in claim 8, wherein ~~[, in the first and second brush groups,]~~ the plural brushes of the first brush group and the plural brushes of the second brush group are respectively arranged ~~[zigzag]~~ in the state where
15 each of the contacts is shifted in a direction orthogonal to a moving direction of the brushes to evade intersection of movement trajectories of the brushes.

10. The treatment device as set forth in claim 8,
— wherein the housing is constituted with a first casing having
20 the accommodating portion for the electric component and a second casing supporting the respective brushes, and

wherein an attachment/detachment mechanism to join the second casing in relation to the first casing attachably/detachably is provided.

25 11. (New) The treatment device as set forth in claim 6, wherein the light irradiation mechanism irradiates light within a wavelength region from 550 to 580 nm.

12. (New) The treatment device as set forth in claim 7,

REPLACEMENT SHEET *Amendment under Article 19*

wherein the light irradiation mechanism comprises a light source in a base end portion side of the contact, and

wherein, in a central part of the contact, a non-penetrating light guide hole which has an opening only in the base end portion side of the contact and which is to guide the light emitted from said light source from the base end portion side to a tip portion side of said contact is formed.

13. (New) The treatment device as set forth in claim 2, wherein the contact drive mechanism, comprising:

10 first and second arms respective one end portions of which are connected to the first and second contact groups and respective the other end portions of which are supported pivotably; and

a transfer mechanism for motive power including at least a cam which gives central parts of the first and second arms operating power to reciprocate said first and second contact groups, respectively.

14. (New) The treatment device as set forth in claim 8, wherein the light irradiation mechanism irradiates light within a wavelength region from 550 to 580 nm.

15. (New) The treatment device as set forth in claim 8, wherein the light irradiation mechanism comprises a light source in a base end portion side of the brush, and

wherein, in a central part of the brush, a non-penetrating light guide hole which has an opening only in the base end portion side of the brush and which is to guide the light emitted from said light source from the base end portion side of the brush to a tip portion side is formed.

REPLACEMENT SHEET *Amendment under Article 19*

16. (New) The treatment device as set forth in claim 8,
wherein the brush drive mechanism, comprising:

first and second arms respective one end portions of
which are connected to the first and second brush groups and respective
5 the other end portions of which are supported pivotably; and

a transfer mechanism for motive power including at
least a cam which gives central parts of the first and second arms
operating power to reciprocate the first and second brush groups,
respectively.

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